

Advances in Intelligent Systems and Computing

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Preface

This book contains a selection of papers accepted for presentation and discussion at The 2018 World Conference on Information Systems and Technologies (WorldCIST'18). This conference had the support of the IEEE Systems, Man, and Cybernetics Society, AISTI (Iberian Association for Information Systems and Technologies/Associação Ibérica de Sistemas e Tecnologias de Informação), University of Calabria, and GIIM (Global Institute for IT Management). It took place at Naples, Italy, on March 27–29, 2018.

The World Conference on Information Systems and Technologies (WorldCIST) is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. One of its main aims is to strengthen the drive toward a holistic symbiosis between academy, society, and industry. WorldCIST'18 built on the successes of WorldCIST'13 held at Olhão, Algarve, Portugal, WorldCIST'14 held at Funchal, Madeira, Portugal, WorldCIST'15 held at São Miguel, Azores, Portugal, WorldCIST'16 held at Recife, Pernambuco, Brazil, and WorldCIST'17 which took place at Porto Santo Island, Madeira, Portugal.

The Program Committee of WorldCIST'18 was composed of a multidisciplinary group of experts and those who are intimately concerned with Information Systems and Technologies. They have had the responsibility for evaluating, in a 'blind review' process, the papers received for each of the main themes proposed for the conference: (A) Information and Knowledge Management; (B) Organizational Models and Information Systems; (C) Software and Systems Modeling; (D) Software Systems, Architectures, Applications, and Tools; (E) Multimedia Systems and Applications; (F) Computer Networks, Mobility and Pervasive Systems; (G) Intelligent and Decision Support Systems; (H) Big Data Analytics and Applications; (I) Human–Computer Interaction; (J) Ethics, Computers & Security; (K) Health Informatics; (L) Information Technologies in Education; (M) Information Technologies in Radiocommunications; (N) Technologies for Biomedical Applications.

The conference also included workshop sessions taking place in parallel with the conference ones. Workshop sessions covered themes such as (i) Applied Statistics and Data Analysis using Computer Science, (ii) Artificial Intelligence in Fashion Industry, (iii) Emerging Trends and Challenges in Business Process Management, (iv) Emerging Trends, Challenges, and Solutions in Infrastructures and Smart Building Management, (v) Healthcare Information Systems Interoperability, Security, and Efficiency, (vi) Intelligent and Collaborative Decision Support Systems for Improving Manufacturing Processes, (vii) New Pedagogical Approaches with Technologies, (viii) Pervasive Information Systems, (ix) Technologies in the workplace—use and impact on workers.

WorldCIST'18 received more than 400 contributions from 66 countries around the world. The papers accepted for presentation and discussion at the conference are published by Springer (this book) and by AISTI (one issue in the Journal of Information Systems Engineering & Management) and will be submitted for indexing by ISI, Ei Compendex, SCOPUS, DBLP, and/or Google Scholar, among others. Extended versions of selected best papers will be published in special or regular issues of relevant journals, mainly SCI/SSCI and Scopus/Ei Compendex indexed journals.

We acknowledge all of those that contributed to the staging of WorldCIST'18 (authors, committees, workshop organizers, and sponsors). We deeply appreciate their involvement and support that was crucial for the success of WorldCIST'18.

March 2018

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Contents

Information and Knowledge Management

A Comparison of Small Area Estimation and Kriging in Estimating Rainfall in Sri Lanka	3
Kalum Udagepola and Mithila Perera	
Managing Telework from an Austrian Manager's Perspective	16
Michal Beno	
Soft Innovation in the Video Game Industry	30
Hrafnhildur Jónasdóttir	
Does the Interactivity and Participation of the Audience in the Iberoamerican Cyber-Media Advance?	42
Abel Suing, Kruzkaya Ordóñez, and Lilia Carpio	
Knowledge Sharing in Industrialization Project Management Practices	53
Ana Almeida, Anabela Tereso, João Faria, and Teresa Ruão	
Mexican Spanish Affective Dictionary	63
Adriana Peña Pérez Negrón, Luis Casillas, Graciela Lara, and Mario Jiménez	
Measuring Knowledge Management Project Performance	72
Latifa Oufkir and Ismail Kassou	
Feasibility and Development Analysis of P2P Online Lending Platforms in Taiwan	82
Bih-Huang Jin, Yung-Ming Li, and Tsai-Wei Liu	
Analysis of Interoperability Attributes for Supplier Selection in Supply Chain Segmentation Strategy	92
Laion Xavier Pereira, Eduardo Alves Portela Santos, and Eduardo de Freitas Rocha Loures	

Solvency II – A BPM Application	103
Tiago Gonçalves, João Silva, and Nuno Silva	
Legal and Economic Aspects of Virtual Organizations	113
Luboš Smrčka and Dagmar Čámská	
An Approach for Knowledge Extraction from Source Code (KNESC) of Typed Programming Languages	122
Azanzi Jiomekong and Gaoussou Camara	
Measuring the Quality of Humanitarian Information Products: Insights from the 2015 Nepal Earthquake	132
Hossein Baharmand and Tina Comes	
Assessing Review Reports of Scientific Articles: A Literature Review	142
Amanda Sizo, Adriano Lino, and Álvaro Rocha	
Differences Between Urgent and Non Urgent Patients in the Paediatric Emergency Department: A 240,000 Visits’ Analysis	150
João Viana, Almeida Santos, and Alberto Freitas	
Methodology for the Implementation of Knowledge Management Systems in the University	161
Víctor Hugo Medina García, Lina María Medina Estrada, and Joaquín Javier Meza Alvarez	
Adapting a Multi-SOM Clustering Algorithm to Large Banking Data	171
Imèn Khanchouch and Mohamed Limam	
Redundant Independent Files (RIF): A Technique for Reducing Storage and Resources in Big Data Replication	182
Mostafa R. Kaseb, Mohamed H. Khafagy, Ihab A. Ali, and ElSayed M. Saad	
Improving Employee Recruitment Through Data Mining	194
Visar Shehu and Adrian Besimi	
Where to go in Brooklyn: NYC Mobility Patterns from Taxi Rides	203
Juan Carlos Garcia, Allan Avendaño, and Carmen Vaca	
Supporting IoT Data Similarity at the Edge Towards Enabling Distributed Clustering	213
Hasibur Rahman	
Uncertainty in Context-Aware Systems: A Case Study for Intelligent Environments	225
Leandro Oliveira Freitas, Pedro Rangel Henriques, and Paulo Novais	

An Incident Handling Guide for Small Organizations in the Hospitality Sector	232
Oluwadamilola Ogunyebi, Bobby Swar, and Shaun Aghili	
The Moderating Influence of Socially-Inspired Trust on the Connection Between Persuasive Governmental Social Media Quality and Success	242
Adel M. Aladwani	
Persuasive Website Quality and Knowledge Sharing Success: A Preliminary Examination	248
Adel M. Aladwani	
Human Post-editing in Hybrid Machine Translation Systems: Automatic and Manual Analysis and Evaluation	254
Juncal Gutiérrez-Artacho, María-Dolores Olvera-Lobo, and Irene Rivera-Trigueros	
LGBT Tourism: The Competitiveness of the Tourism Destinations Based on Digital Technology	264
Pedro Liberato, Dália Liberato, António Abreu, Elisa Alén, and Álvaro Rocha	
Facial Emotion Detection in Massive Open Online Courses	277
Mohamed Soltani, Hafed Zarzour, and Mohamed Chaouki Babahenini	
Integration of Process Mining and Simulation: A Survey of Applications and Current Research	287
Brian Keith Norambuena	
Improving Regression Models Using Simulated Annealing for Stock Market Speculation	295
Hana Jamali, Omar Bencharef, Abdellah Nabaji, Khalid El Housni, and Zahra Asebriy	
Machine Learning Based Sentiment Analysis on Spanish Financial Tweets	305
José Antonio García-Díaz, María Pilar Salas-Zárate, María Luisa Hernández-Alcaraz, Rafael Valencia-García, and Juan Miguel Gómez-Berbís	
Software-Based Brand Ambassador Selection — A Celebrity-Branding Assessment Framework in Action	312
Selina Görgner and Philipp Brune	
Field Measurements of Electrical Consumption in a Multi-purpose Educational Building	322
Fernando del Ama Gonzalo, Jose A. Ferrandiz, David Fonseca Escudero, and Juan A. Hernandez	

Role of Data Properties on Sentiment Analysis of Texts via Convolutions	330
Erion Çano and Maurizio Morisio	
A Comparison of Feature Selection Methods to Optimize Predictive Models Based on Decision Forest Algorithms for Academic Data Analysis	338
Antonio Jesús Fernández-García, Luis Iribarne, Antonio Corral, and Javier Criado	
Building Sustainable NREs in Africa - A Technological and e-Education Perspective	348
Marangaze Munhepe Mulhanga and Solange Rito Lima	
Augmenting SMT with Semantically-Generated Virtual-Parallel Corpora from Monolingual Texts	358
Krzysztof Wołk and Agnieszka Wołk	
Assessing the Impact of Internet of Everything Technologies in Football	375
Marcelo Pires and Vítor Santos	
A Model for Knowledge Management and Information Systems at the Faculty of Education in Kuwait University	389
Sultan Ghaleb Aldaihani	
Who Are Your Design Heroes? Exploring User Roles in a Co-creation Community	399
Manuel Moritz, Tobias Redlich, and Jens Wulfsberg	
Digital Transformation: A Literature Review and Guidelines for Future Research	411
João Reis, Marlene Amorim, Nuno Melão, and Patrícia Matos	
Evaluation of the Maturity Level of the IT Services in Higher Education Institutions: Portugal and Russia	422
João Paulo Pereira, Iuliia Zubar, and Efanova Natalya	
Improving Project Management Practice Through the Development of a Business Case: A Local Administration Case Study	433
Fernando Martins, Pedro Ribeiro, and Francisco Duarte	
An Online Focus Group Approach to e-Government Acceptance and Use	449
Soraia Nunes, José Martins, Frederico Branco, and Mijail Zolotov	
Archetype Development Process: A Case Study of Support Interoperability Among Electronic Health Record in the State of Minas Gerais, Brazil	457
Thais Abreu Maia, Cristiana Fernandes De Muijder, and Zilma Silveira Nogueira Reis	

Towards Information Warehousing: A Case Study for Tweets	468
Hadjer Moulai and Habiba Drias	
Predictive Maintenance in the Metallurgical Industry: Data Analysis and Feature Selection	478
Marta Fernandes, Alda Canito, Verónica Bolón, Luís Conceição, Isabel Praça, and Goreti Marreiros	
Model for Sharing Knowledge in a Co-creation Process with High Ability Students	490
Juan Pablo Meneses-Ortegón, Teodor Jové, Ramon Fabregat, and Mery Yolima Uribe-Rios	
Evaluation of Information Systems Curriculum in Portugal and Russia	498
João Paulo Pereira, Ivlev Aleksandr, and Elena Popova	
Implementation of Paperless Office in the Classroom	508
Richardus Eko Indrajit, Saide, Rizqi Wahyuningsih, and Lisa Tinaria	
Towards a Mathematical Knowledge Management System: Ontology to Model Linear Equations	518
Alan Ramírez-Noriega, Yobani Martínez-Ramírez, José Armenta, Sergio Miranda, J. Francisco Figueroa Pérez, José Mendivil-Torres, and Samantha Jiménez	
A Conceptual Research Model Proposal of Digital Marketing Adoption and Impact on Low Density Tourism Regions	528
Filipa Jorge, Mário Sérgio Teixeira, Ricardo Jorge Correia, Ramiro Gonçalves, José Martins, and Maximino Bessa	
A Conceptual Model Proposal for Characterizing Discount and Outlet Platforms Adoption	538
Carlos Peixoto, José Martins, Ramiro Gonçalves, Frederico Branco, and Manuel Au-Yong-Oliveira	
IoT Semantic Modeling Using the GWE (Generalized World Entities) Paradigm	549
Gian Piero Zarri	
Search in Collections of Mathematical Articles	561
Eugeny Birialtsev, Alexander Gusenkov, Olga Zhibrik, Polina Gusenkova, and Yana Palacheva	
Extending PythonQA with Knowledge from StackOverflow	568
Renato Preigschadt de Azevedo, Pedro Rangel Henriques, and Maria João Varanda Pereira	

Using Probabilistic Topic Models to Study Orientation of Sustainable Supply Chain Research	576
Carlos Montenegro, Edison Loza-Aguirre, and Marco Segura-Morales	
A Vulnerability Study of Mhealth Chronic Disease Management (CDM) Applications (apps)	587
Tolulope Mabo, Bobby Swar, and Shaun Aghili	
Specialized Case Tools for the Development of Expert Systems	599
Rustam A. Burnashev, Albert V. Gubajdullin, and Arslan I. Enikeev	
A BPMN Extension for the Annotation of HACCP Plans in Hospital Protocols	606
Mateo Ramos Merino, Luis M. Álvarez Sabucedo, Juan M. Santos Gago, and Víctor M. Alonso Rorís	
An Evaluation of Data Model for NoSQL Document-Based Databases	616
Debora G. Reis, Fabio S. Gasparoni, Maristela Holanda, Marcio Victorino, Marcelo Ladeira, and Edward O. Ribeiro	
Information Sharing as a Coordination Tool in Supply Chain Using Multi-agent System and Neural Networks	626
Halima Bousqaoui, Ilham Slimani, and Said Achchab	
CaVa: An Example of the Automatic Generation of Virtual Learning Spaces	633
Ricardo G. Martini, Cristiana Araújo, Pedro Rangel Henriques, and Maria João Varanda Pereira	
Using Social Network Analysis to Identify User Preferences for Cultural Events	644
Stevan Milovanović, Zorica Bogdanović, Aleksandra Labus, Dušan Barać, and Marijana Despotović-Zrakić	
Validity Issues of Digital Trace Data for Platform as a Service: A Network Science Perspective	654
Mehmet N. Aydin, Dzordana Kariniauskaite, and N. Ziya Perdahci	
The Role of Big Data in University Strategy and Performance Eco System: A Case Study	665
Ali AlSoufi	
A P2P Algorithm for a Smart Information System	671
Agostino Forestiero and Giuseppe Papuzzo	
Proposal of a BI/SSBI System for Knowledge Management of the Traffic of a Network Infrastructure – A University of Trás-os-Montes e Alto Douro Case Study	678
José Bessa, Frederico Branco, António Rio Costa, Ramiro Gonçalves, and Fernando Moreira	

Application of High Performance Computing Techniques to the Semantic Data Transformation	691
José Antonio Bernabé-Díaz, María del Carmen Legaz-García, José M. García, and Jesualdo Tomás Fernández-Breis	
A Semantic MatchMaking Framework for Volunteering MarketPlaces	701
Johannes Schönböck, J. Altmann, E. Kapsammer, E. Kimmerstorfer, B. Pröll, W. Retschitzegger, and W. Schwinger	
A Candidate Generation Algorithm for Named Entities Disambiguation Using DBpedia	712
Wissem Bouarroudj and Zizette Boufaida	
Higher Education Analytics: New Trends in Program Assessments	722
Adam Marks and Maytha AL-Ali	
Visualization on Decision Support Systems Models: Literature Overview	732
Carlos Manuel Oliveira Alves and Manuel Pérez Cota	
An Efficient Real-Time Monitoring to Manage Home-Based Oxygen Therapy	741
Vincenza Carchiolo, Lucio Compagno, Michele Malgeri, Natalia Trapani, Maria Laura Previti, Mark Philip Loria, and Marco Toja	
Video Analytics on a Mixed Network of Robust Cameras with Processing Capabilities	750
Juan Pablo D'Amato, Alejandro Perez, Leonardo Dominguez, Aldo Rubiales, Rosana Barbuzza, and Franco Stramana	
Increasing Authorship Identification Through Emotional Analysis	763
Ricardo Martins, José Almeida, Pedro Henriques, and Paulo Novais	
Modeling an Information Visualization Engine for Situational-Awareness in Health Insurance	773
Flávio Epifânio and Gabriel Pestana	
Learning Ecosystem Metamodel Quality Assurance	787
Alicia García-Holgado and Francisco J. García-Peñalvo	
Statistical Approach to Noisy-Parallel and Comparable Corpora Filtering for the Extraction of Bi-lingual Equivalent Data at Sentence-Level	797
Krzysztof Wołk, Emilia Zawadzka, and Agnieszka Wołk	
Empirical-Evolution of Frameworks Supporting Co-simulation Tool-Chain Development	813
Jinzhi Lu, Didem Gürdür, De-Jiu Chen, Jian Wang, and Martin Törngren	

Trust and Reputation Modelling for Tourism Recommendations Supported by Crowdsourcing 829
Fátima Leal, Benedita Malheiro, and Juan Carlos Burguillo

A Context-Awareness System to Promote Cooperation in Implanting High-Speed Electronic Communications Network 839
Gabriel Pestana, Ana Isaias, and Manuel Barros

FAMAP: A Framework for Developing m-Health Apps 850
Iván García-Magariño, Manuel Gonzalez Bedia, and Guillermo Palacios-Navarro

Organizational Models and Information Systems

PMBOK as a Reference Model for Academic Research Management 863
Sussy Bayona, Jose Bustamante, and Nemias Saboya

Classifying Cloud Computing Challenges: A Taxonomy Proposal 877
Bastian Ferrer and Aldo Quelopana

Development of a Grooming Process for an Agile Software Team in the Automotive Domain 887
Francisca Ribeiro, André L. Ferreira, Anabela Tereso, and Deborah Perrotta

Characterization of an Evaluation Success Model of an IS Project, Focused on Stakeholders 897
Luís Barros and Pedro Ribeiro

Development of an Interface for Managing and Monitoring Projects in an Automotive Company 905
Andreia Reis, Anabela Tereso, Cláudio Santos, and Jorge Coelho

Evaluation of “Method” as IT Artifacts in Soft Design Science Research: Development of Community Based E-Museum Framework Towards Sustainable Cultural Heritage Information System 915
Suriyati Razali

Business Process Reengineering Using Enterprise Social Network 925
Amjed Al-Thuhli and Mohammed Al-Badawi

Information Technology Determinants of Organizational Performance in the Context of a Cameroonian Electricity Company . . . 934
Francis Dany Balie Djong, Jean Robert Kala Kamdjoug, and Samuel Fosso Wamba

Evaluation Metrics of the Development of Municipal e-Government . . . 942
Vicente Morales and Sussy Bayona

The Importance of the Dimensions of a Smart City – A Survey in Small Cities	957
Isabel Maria Lopes and Pedro Oliveira	
The Rise of the Unicorn: Shedding Light on the Creation of Technological Enterprises with Exponential Valuations	967
Manuel Au-Yong-Oliveira, João Pedro Costa, Ramiro Gonçalves, and Frederico Branco	
Mobile Sharing Platform Operation Model and System Dynamic Analysis: Uber and Taiwan Taxi as Examples	978
Ting-Kai Hwang, Bih-Huang Jin, Yung-Ming Li, and Shin-Jui Lee	
Improving Work Allocation Practices in Business Processes Supported by BPMS	989
Robbie Uahi, José Luís Pereira, and João Varajão	
Integrated Framework for the Civil Construction Projects Management by Mean PMBOK, ISO 21500 and ITIL V3	996
Eduardo Isacás-Ojeda, Monserrate Intriago-Pazmiño, Hernán Ordoñez-Calero, Elizabeth Salazar-Jácome, and Wilson Sánchez-Ocaña	
Cognitive Determinants of IT Professional Belief and Attitude Towards Green IT	1006
Adedapo Oluwaseyi Ojo, Murali Raman, and Rameswaran Vijayakumar	
Corporate Digital Learning – Proposal of Learning Analytics Model	1016
Maria José Sousa and Álvaro Rocha	
Freemium Project Management Tools: Asana, Freedcamp and Ace Project	1026
Tânia Ferreira, Juncal Gutiérrez-Artacho, and Jorge Bernardino	
Agile Analytics: Applying in the Development of Data Warehouse for Business Intelligence System in Higher Education	1038
Reynaldo Joshua Salaki and Kalai Anand Ratnam	
Satisfaction with e-participation: A Model from the Citizen's Perspective, Expectations, and Affective Ties to the Place	1049
Mijail Naranjo Zolotov, Tiago Oliveira, Frederico Cruz-Jesus, and José Martins	
Coalition-OrBAC: An Agent-Based Access Control Model for Dynamic Coalitions	1060
Iman Ben Abdelkrim, Amine Baina, Christophe Feltus, Jocelyn Aubert, Mostafa Bellafkih, and Djamel Khadraoui	

Health Data Analytics: A Proposal to Measure Hospitals Information Systems Maturity	1071
João Vidal Carvalho, Álvaro Rocha, José Vasconcelos, and António Abreu	
Supply Chain Challenges with Complex Adaptive System Perspective	1081
Abla Chaouni Benabdellah, Imane Bouhaddou, and Asmaa Benghabrit	
Understanding the Adoption of Business Analytics and Intelligence	1094
Frederico Cruz-Jesus, Tiago Oliveira, and Mijail Naranjo	
The Planning Process Integration Influence on the Efficiency of Material Flow in Production Companies	1104
Michal Adamczak and Piotr Cyplik	
Time Difference of Arrival Enhancement with Ray Tracing Simulation	1113
Marcelo N. de Sousa, Eduardo F. S. Corrêa, and Reiner S. Thomä	
E-Mail Client Multiplatform for the Transfer of Information Using the SMTP Java Protocol Without Access to a Browser	1124
Liliana Enciso, Ruben Baez, Alvaro Maldonado, Elmer Zelaya-Policarpo, and Pablo Alejandro Quezada-Sarmiento	
CRUDi Framework Application – Bank Company Case Study	1131
Jorge Pereira, Frederico Branco, Manuel Au-Yong-Oliveira, and Ramiro Gonçalves	
GRAPHED: A Graph Description Diagram for Graph Databases	1141
Gustavo Van Erven, Waldeyr Silva, Rommel Carvalho, and Maristela Holanda	
Capabilities and Work Practices - A Case Study of the Practical Use and Utility	1152
Anders W. Tell and Martin Henkel	
Systematic Review of the Literature, Research on Blockchain Technology as Support to the Trust Model Proposed Applied to Smart Places	1163
António Brandão, Henrique São Mamede, and Ramiro Gonçalves	
An Architecture for a Viable Information System	1175
Anton Selin and Vitor Santos	
Smart Bengali Idiomatic Translator Service Using Morphological Marketing Technique	1190
Amit Roy and Vitor Duarte dos Santos	

Erratum to: Validity Issues of Digital Trace Data for Platform as a Service: A Network Science Perspective E1
Mehmet N. Aydin, Dzordana Kariniauskaite, and N. Ziya Perdahci

Author Index. 1201